

General Description

The SLD610S is a low power, low noise, fast transient response and low dropout voltage linear regulator. It provides -500mA output current capability. The operating input voltage range is from -2.7V to -24V. The adjustable output voltage range is from -1.2V to $(-V_{IN} + V_{DROP})$.

Other features include logic-controlled shutdown mode, short-circuit current limit and thermal shutdown protection. The SLD610S has automatic discharge function to quickly discharge V_{OUT} in the disabled status. The SLD610S is available in Green SOT23-5 packages. It operates over an operating temperature range of -40°C to +125°C.

Features

- Input Voltage Range: -2.7V to -24V
- Fixed V_{OUT} : 1.2V/1.5V/1.8V/2.5V/2.8V/3V/3.3V and 5.0V in different version
- Adjustable Output from -1.2V to $(V_{IN} + V_{DROP})$
- Output accuracy: $\pm 1\%$ for all version and temperature range
- High PSRR: -60dB (TYP) @ 1KHz
- Low noise: 16 μ V_{RMS} (TYP) @ 10Hz~100KHz
- Low Quiescent current: 1.2 μ A (TYP)
- Shutdown Supply Current: -1.1 μ A (TYP)
- Over Current protection
- Output Discharge
- Thermal Shutdown
- -40°C to +125°C Operating Temperature Range
- Excellent Load and Line Transient Responses
- Robust ESD immunity capability
HBM > ± 2 KV
CDM > ± 1 KV
- Available in Green SOT23-5 Packages

Applications

- Industrial and Medical Equipment
- Communications and Infrastructure
- Precision Amplifiers
- ADC and DAC Circuits